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 TI Manufacture of sodium silicate-based core materials
 for metal sandwich panels having good fire resistance
 IN Iwata, Hiroshi
 PA Nisshin Steel Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
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 DT Patent
 LA Japanese
 IC ICM C04B038-02
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 CC 56-13 (Nonferrous Metals and Alloys)
 Section cross-reference(s): 57, 58

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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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	ICS	C04B032-00; C04B032-02; E04C002-26
	IPCI	C04B0038-02 [ICM, 7]; C04B0032-00 [ICS, 7]; C04B0032-02 [ICS, 7]; E04C0002-26 [ICS, 7]
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AB The process comprises: adding 3-30 weight parts of boric acid
 and/or 10-100 weight parts of Al hydroxide to
 100 weight parts (solid portion) of #3 sodium
 silicate, stirring and heating to form a gel-like
 material, and placing in a container for foaming at 160-300° until
 the sodium silicate have the d. of 0.1-0.9, where the
 d. is calculated based on the formula of: $(M_{sn}-M_t)/(V+1000)$ (V is the
 volume of the foamed body, M_{sn} is the weight of the foamed body, and M_t is the
 weight of the additive before foaming).
 ST foamed sodium silicate core metal sandwich panel fire
 resistance
 IT Fire-resistant materials
 (manufacture of sodium silicate-based cor